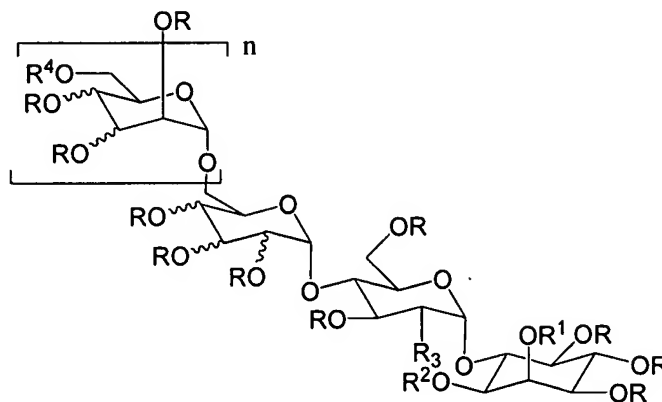


*In the Claims:*

1. (previously presented) A compound represented by formula I:



I

wherein,

n is 3, or 4;

R represents independently for each occurrence H, alkyl, aryl, -CH<sub>2</sub>-aryl, -C(O)-alkyl, -C(O)-aryl, or -Si(alkyl)<sub>3</sub>;

R<sup>1</sup> and R<sup>2</sup> are independently H, -CH<sub>2</sub>-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)<sub>3</sub>; or R<sup>1</sup> and R<sup>2</sup> taken together are C(CH<sub>3</sub>)<sub>2</sub>, P(O)OH, or P(O)OR<sup>5</sup>;

R<sup>3</sup> is amino, -N<sub>3</sub>, or -NH<sub>3</sub>X;

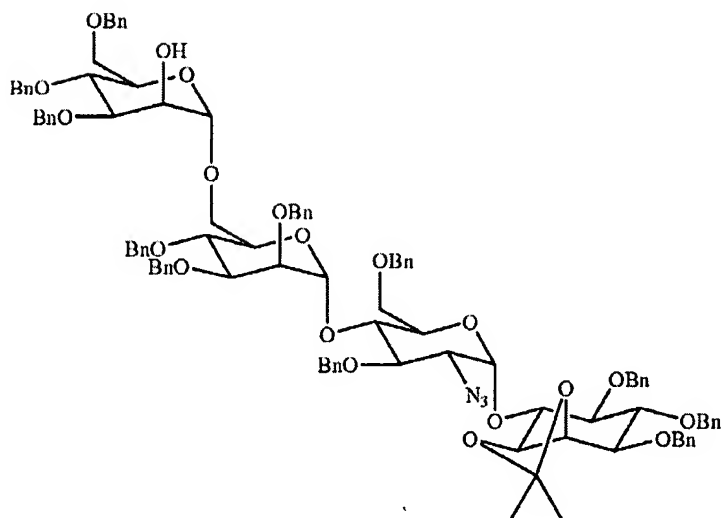
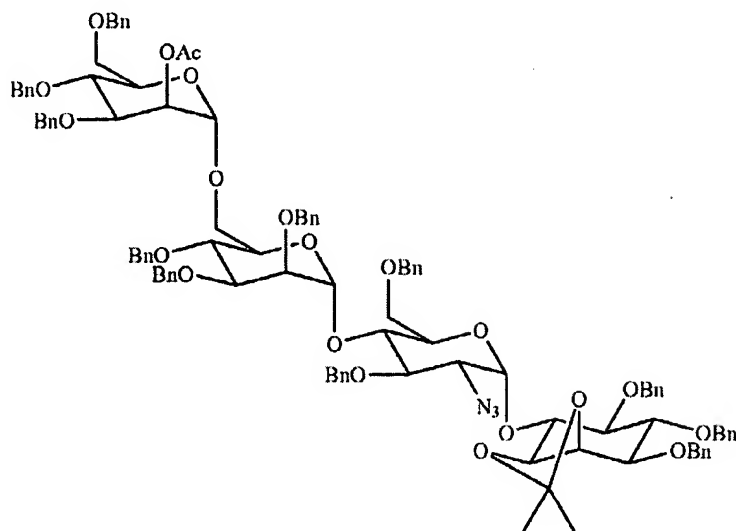
R<sup>4</sup> represents independently for each occurrence alkyl, aryl, -CH<sub>2</sub>-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)<sub>3</sub>, or -P(O)(OR<sup>5</sup>)<sub>2</sub>;

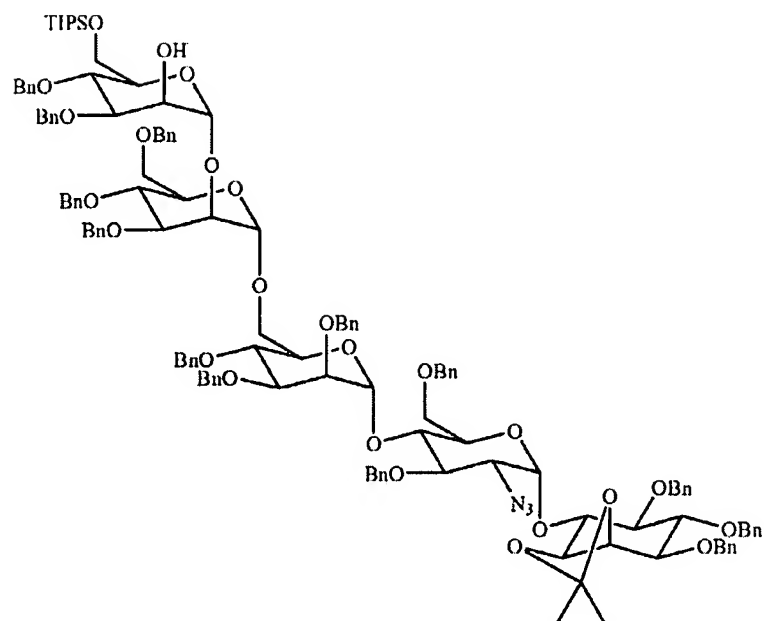
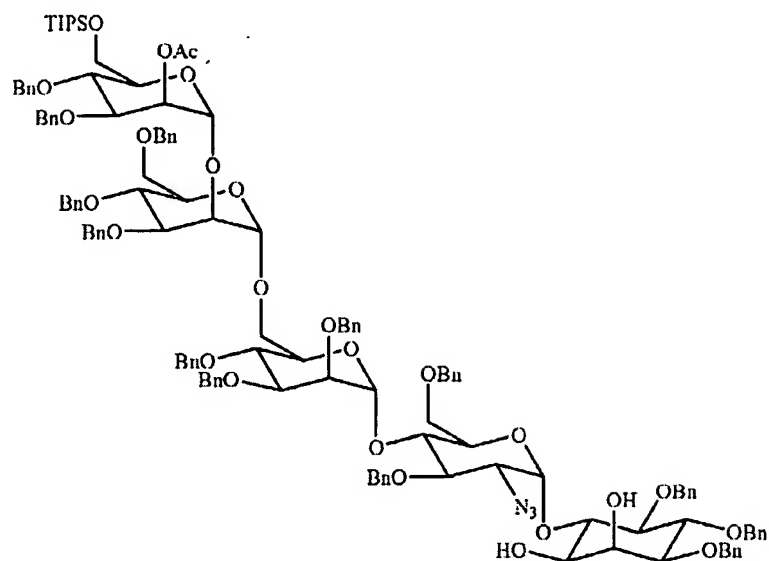
R<sup>5</sup> represents independently for each occurrence H, Li<sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, Rb<sup>+</sup>, Cs<sup>+</sup>, aryl, or an optionally substituted alkyl group; and

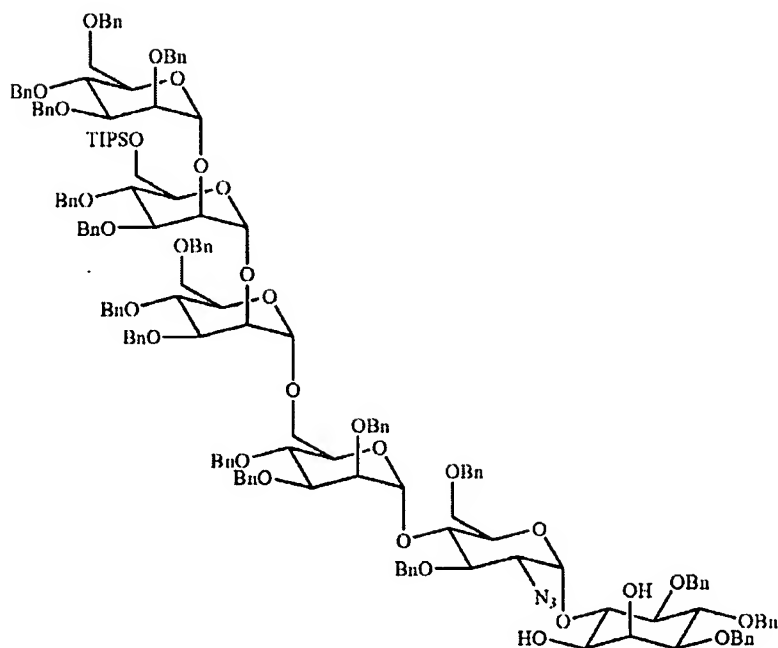
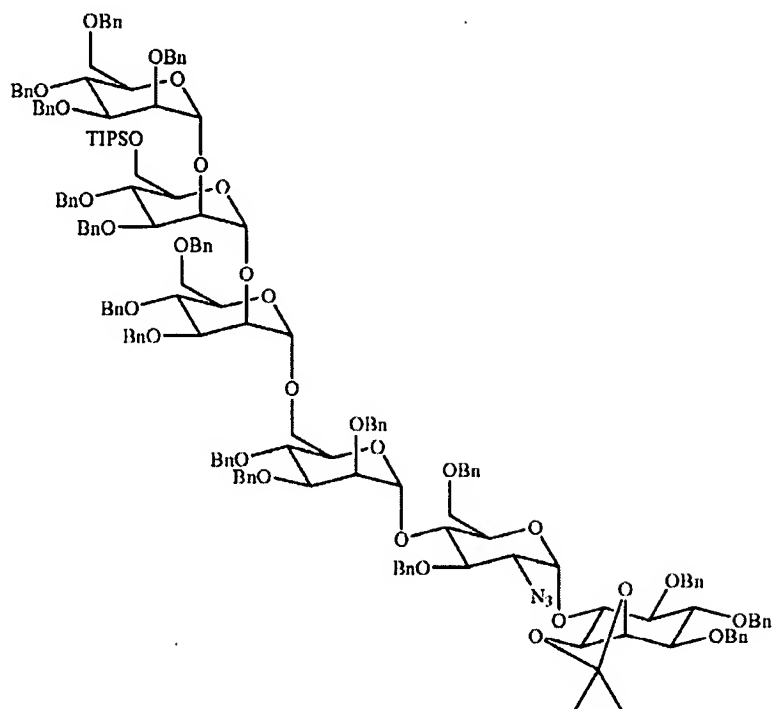
X is a halogen, alkyl carboxylate, or aryl carboxylate.

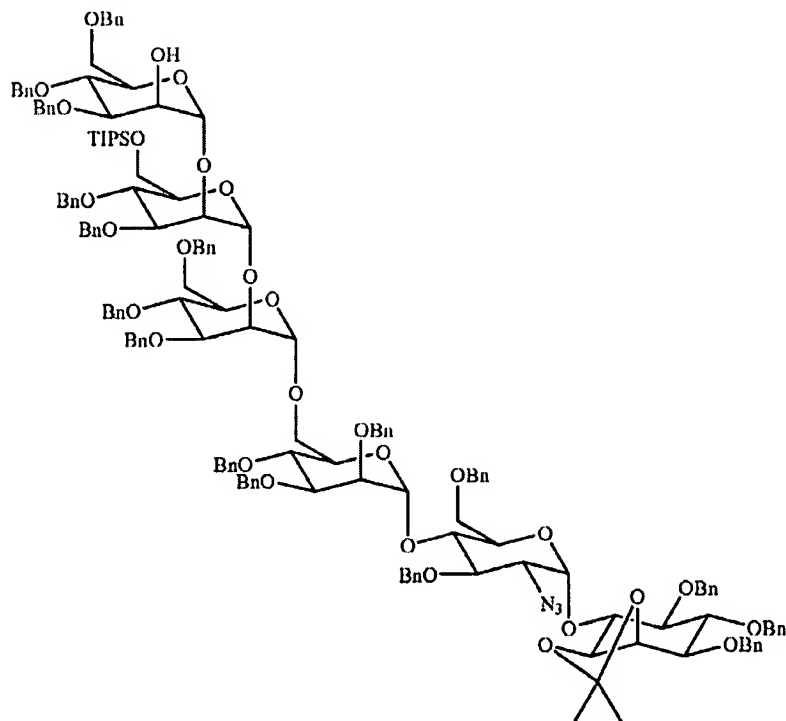
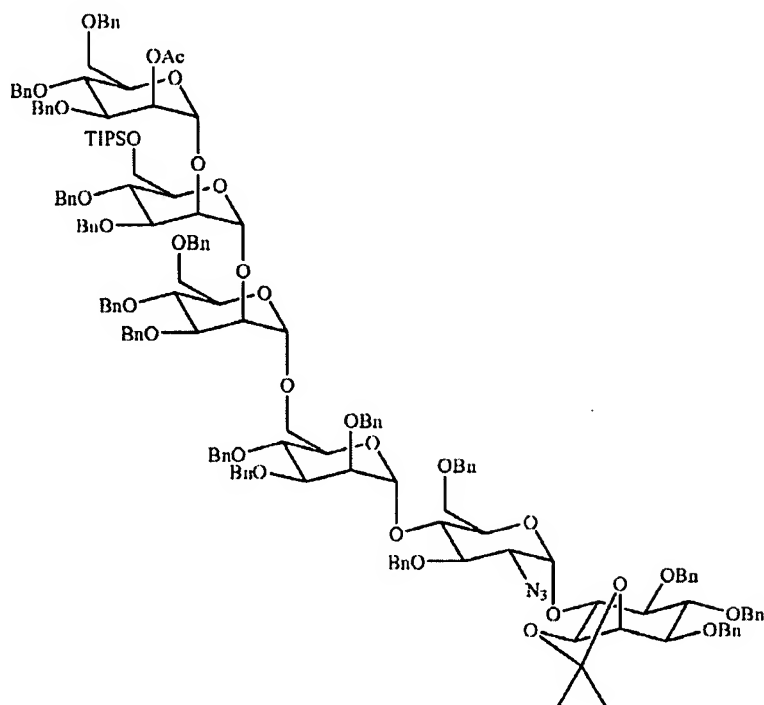
2. (canceled)
3. (original) The compound of claim 1, wherein n is 3.

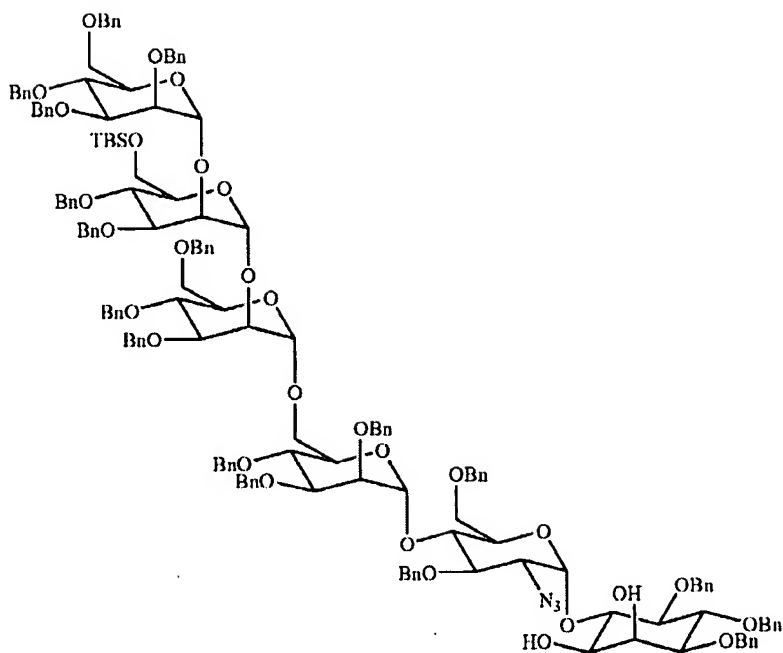
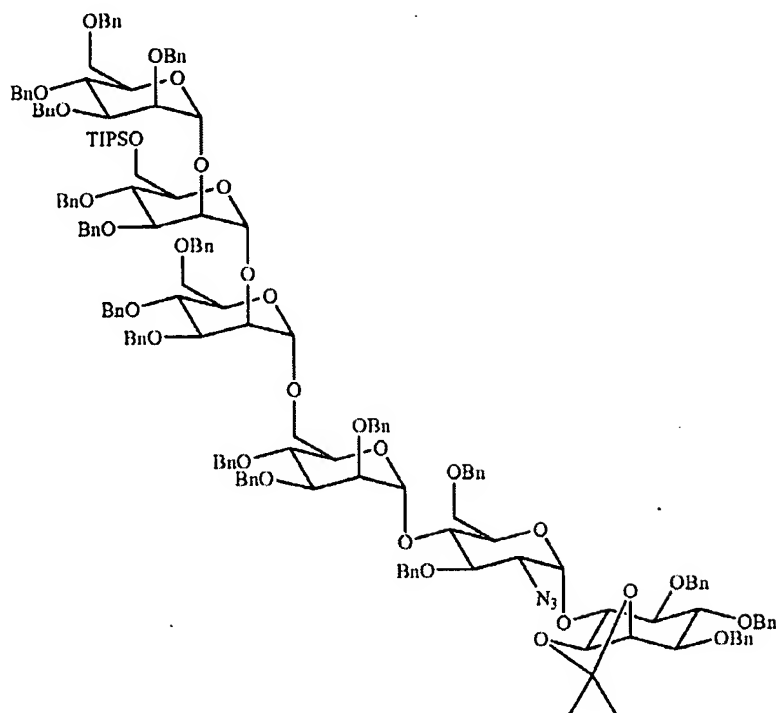
4. (original) The compound of claim 1, wherein R is H.
5. (original) The compound of claim 1, wherein R<sup>1</sup> and R<sup>2</sup> taken together are P(O)OR<sup>5</sup>.
6. (original) The compound of claim 1, wherein R<sup>3</sup> is N<sub>3</sub>.
7. (original) The compound of claim 1, wherein R<sup>3</sup> is -NH<sub>3</sub>X.
8. (previously presented) The compound of claim 1, wherein R<sup>4</sup> represents independently for each occurrence -CH<sub>2</sub>Ph, or -Si(alkyl)<sub>3</sub>.
9. (previously presented) The compound of claim 1, wherein R<sup>4</sup> represents independently for each occurrence -CH<sub>2</sub>Ph, -or P(O)OR<sup>5</sup>; and R<sup>5</sup> is an optionally substituted alkyl group.
10. (previously presented) A compound selected from the group consisting of:

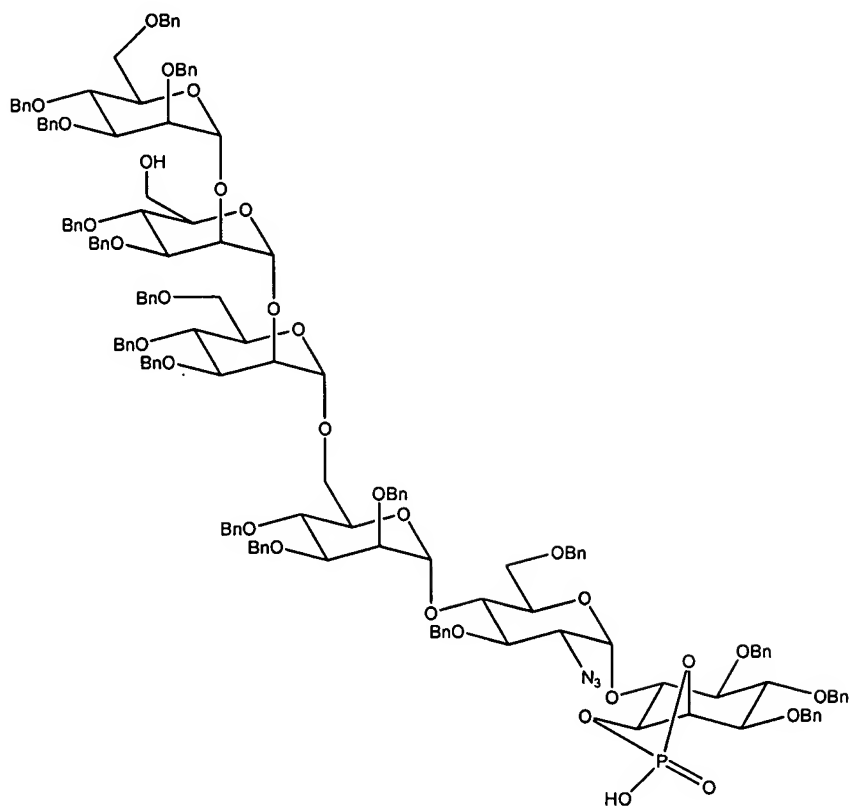




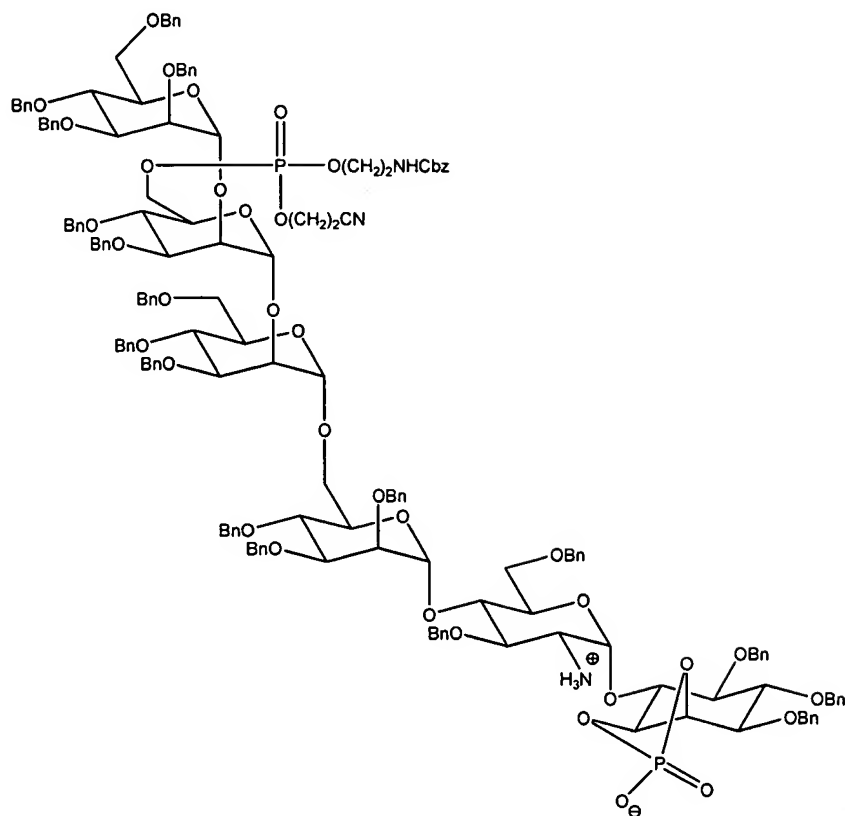


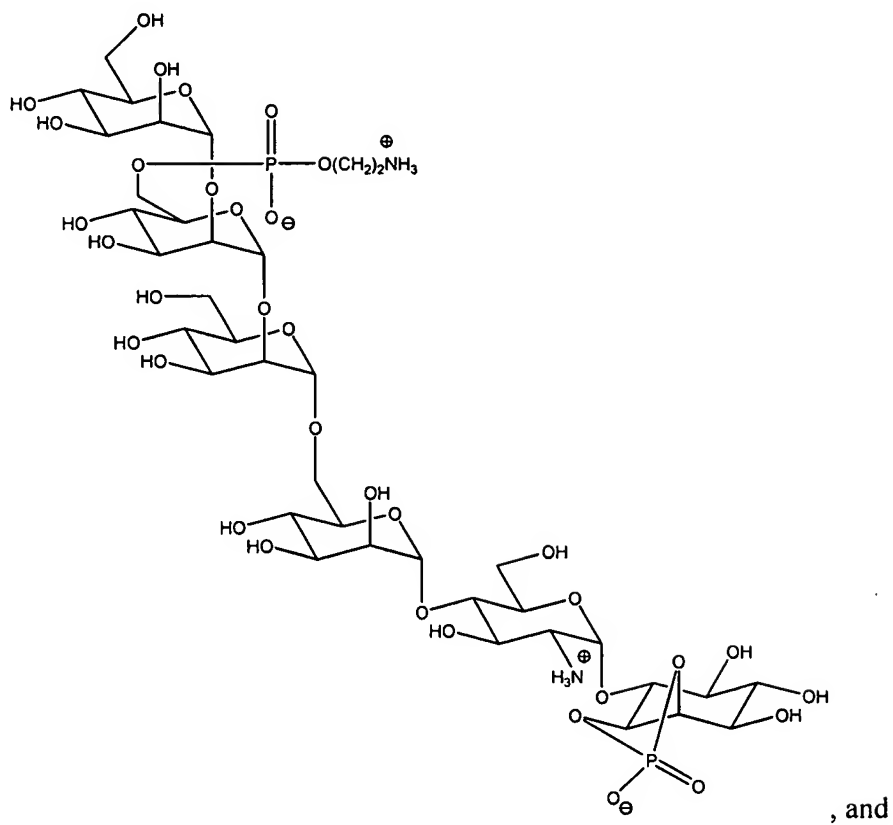


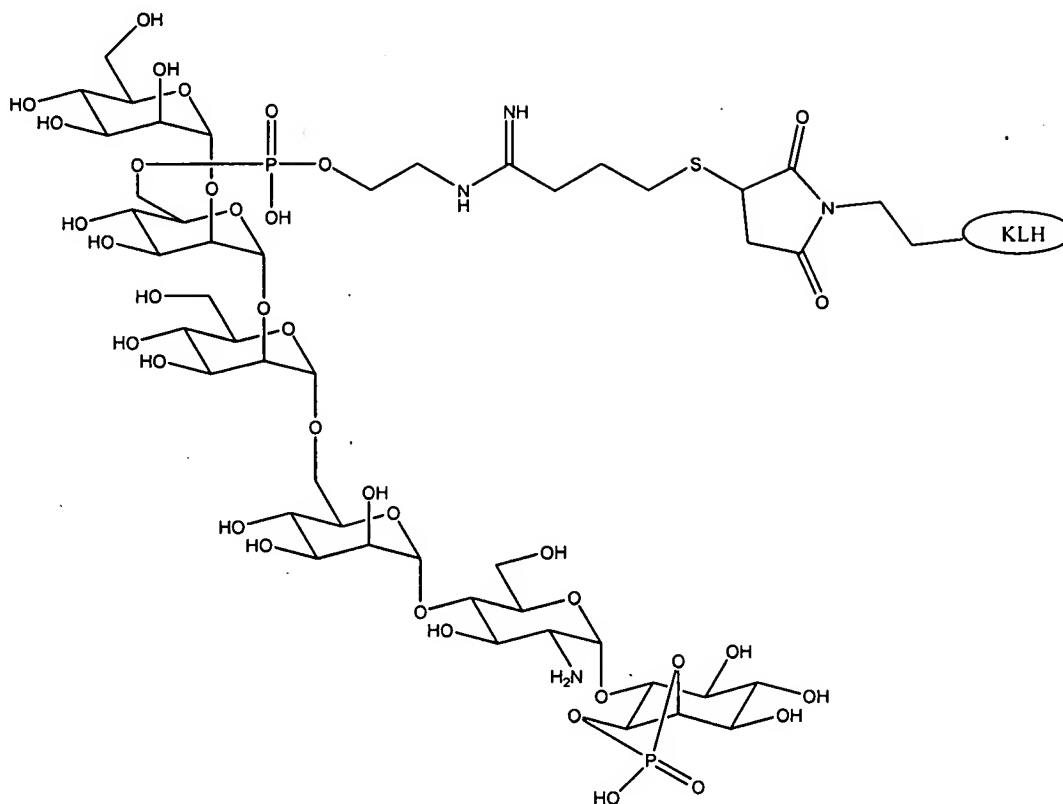




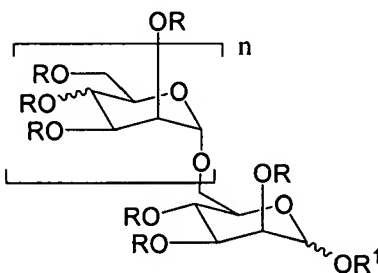








11. (previously presented) A compound represented by formula II:



II

wherein,

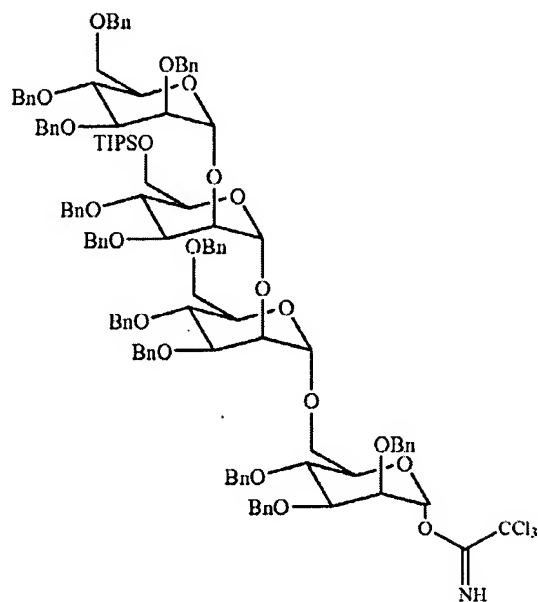
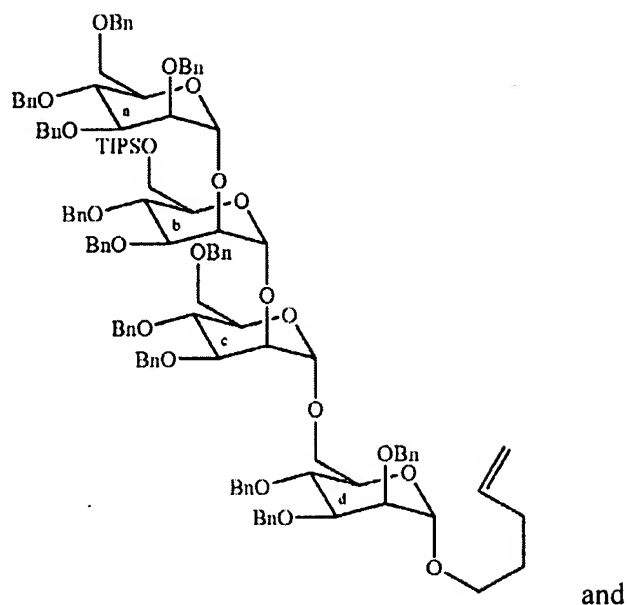
n is 3, or 4;

R represents independently for each occurrence H, alkyl, aryl, -CH<sub>2</sub>-aryl, -C(O)-alkyl, -C(O)-aryl, or -Si(alkyl)<sub>3</sub>;

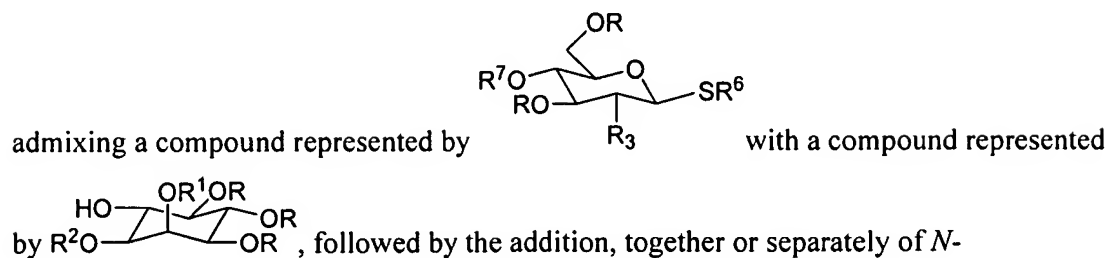
R<sup>1</sup> is -(CH<sub>2</sub>)<sub>m</sub>CH=CH<sub>2</sub> or trichloroacetimidate; and

m is 1-6.

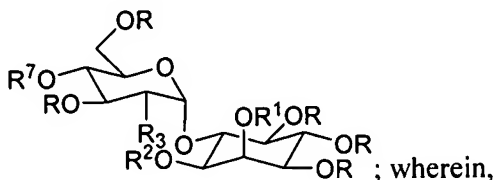
12. (canceled)
13. (original) The compound of claim 11, wherein n is 3.
14. (original) The compound of claim 11, wherein m is 3.
15. (original) The compound of claim 11, wherein R represents independently for each occurrence -CH<sub>2</sub>-aryl or -Si(alkyl)<sub>3</sub>.
16. (original) The compound of claim 11, wherein R represents independently for each occurrence benzyl or -Si(iPr)<sub>3</sub>.
17. (previously presented) The compound of claim 11, wherein R<sup>1</sup> is trichloroacetimidate and R represents independently for each occurrence benzyl or -Si(iPr)<sub>3</sub>.
18. (previously presented) The compound of claim 11, wherein said compound of formula II is selected from the group consisting of:



19. (previously presented) A method comprising the step of:



iodosuccinimide and silver triflate, thereby forming a compound represented by



R represents independently for each occurrence H, alkyl, aryl, -CH<sub>2</sub>-aryl, -C(O)-alkyl, -C(O)-aryl, or -Si(alkyl)<sub>3</sub>;

R<sup>1</sup> and R<sup>2</sup> are independently H, -CH<sub>2</sub>-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)<sub>3</sub>; or R<sup>1</sup> and R<sup>2</sup> taken together are C(CH<sub>3</sub>)<sub>2</sub>, P(O)OH, or P(O)OR<sup>5</sup>;

R<sup>3</sup> is amino, -N<sub>3</sub>, or -NH<sub>3</sub>X;

R<sup>5</sup> represents independently for each occurrence H, Li<sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, Rb<sup>+</sup>, Cs<sup>+</sup>, aryl, or an optionally substituted alkyl group;

R<sup>6</sup> is alkyl or aryl;

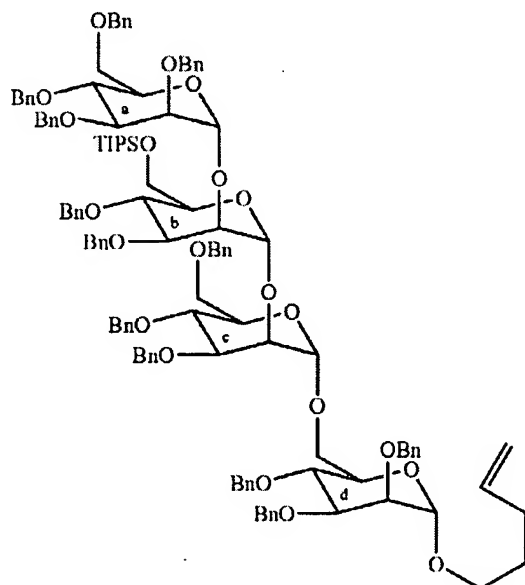
R<sup>7</sup> is alkyl, aryl, -CH<sub>2</sub>-aryl, -C(O)-alkyl, -C(O)-aryl, or -Si(alkyl)<sub>3</sub>; and

X is a halogen, alkyl carboxylate, or aryl carboxylate.

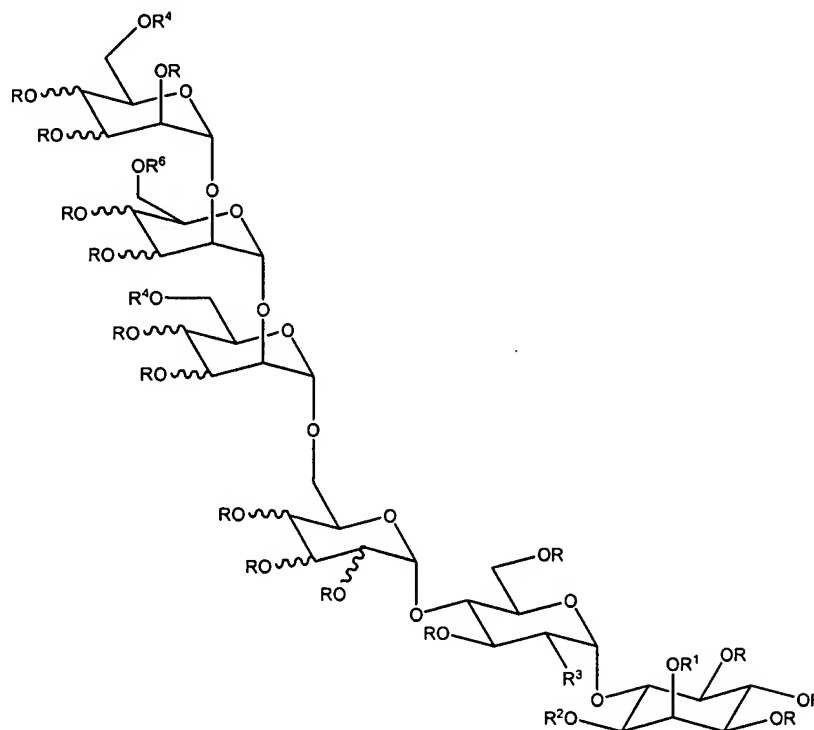
20. (original) The method of claim 19, wherein R is -CH<sub>2</sub>-aryl.
21. (original) The method of claim 19, wherein R<sup>1</sup> and R<sup>2</sup> taken together are C(CH<sub>3</sub>)<sub>2</sub>.
22. (original) The method of claim 19, wherein R<sup>3</sup> is -N<sub>3</sub>.
23. (original) The method of claim 19, wherein R<sup>6</sup> is alkyl.
24. (original) The method of claim 19, wherein R<sup>7</sup> is -C(O)-alkyl.
25. (original) The method of claim 19, wherein R is benzyl, R<sup>1</sup> and R<sup>2</sup> taken together are C(CH<sub>3</sub>)<sub>2</sub>, and R<sup>3</sup> is -N<sub>3</sub>.
26. (original) The method of claim 19, wherein R is benzyl, R<sup>1</sup> and R<sup>2</sup> taken together are C(CH<sub>3</sub>)<sub>2</sub>, R<sup>3</sup> is -N<sub>3</sub>, and R<sup>6</sup> is ethyl.
27. (currently amended) A method of preparing a tetrasaccharide, comprising the steps of:

covalently binding a mannopyranoside to a solid support to provide a first substrate, reacting said first substrate with a mannopyranose trichloroacetimidate to give a disaccharide bound to said solid support, reacting said disaccharide with a mannopyranose trichloroacetimidate to give a trisaccharide bound to said solid support, reacting said trisaccharide with a mannopyranose trichloroacetimidate to give a tetrasaccharide bound to said solid support, and cleaving said tetrasaccharide from said solid support, wherein said tetrasaccharide is cleaved from said solid support using Grubbs' catalyst.

28. (original) The method of claim 27, wherein said mannopyranoside is bound to said solid support through a glycosidic linkage.
29. (canceled)
30. (previously presented) The method of claim 27, wherein said tetrasaccharide is



31. (previously presented) A compound represented by formula I:



I

wherein,

R represents independently for each occurrence H, alkyl, aryl, -CH<sub>2</sub>-aryl, -C(O)-alkyl, -C(O)-aryl, or -Si(alkyl)<sub>3</sub>;

R<sup>1</sup> and R<sup>2</sup> are independently H, -CH<sub>2</sub>-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)<sub>3</sub>; or R<sup>1</sup> and R<sup>2</sup> taken together are C(CH<sub>3</sub>)<sub>2</sub>, P(O)OH, or P(O)OR<sup>5</sup>;

R<sup>3</sup> is amino, -N<sub>3</sub>, or -NH<sub>3</sub>X;

R<sup>4</sup> represents independently for each occurrence H, alkyl, aryl, -CH<sub>2</sub>-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)<sub>3</sub>, or -P(O)(OR<sup>5</sup>)<sub>2</sub>;

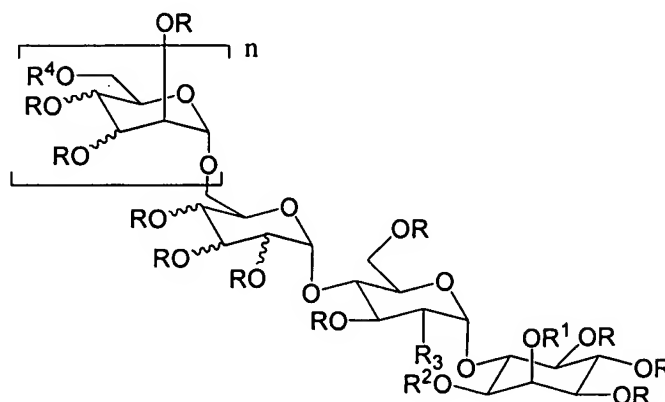
R<sup>5</sup> represents independently for each occurrence H, Li<sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, Rb<sup>+</sup>, Cs<sup>+</sup>, aryl, or an optionally substituted alkyl group; and

R<sup>6</sup> represents independently for each occurrence alkyl, aryl, -CH<sub>2</sub>-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)<sub>3</sub>, or -P(O)(OR<sup>5</sup>)<sub>2</sub>;



X is a halogen, alkyl carboxylate, or aryl carboxylate.

32. (previously presented) The compound of claim 31, wherein R is H.
33. (previously presented) The compound of claim 31, wherein  $R^1$  and  $R^2$  taken together are  $P(O)OR^5$ .
34. (previously presented) The compound of claim 31, wherein  $R^3$  is  $-NH_3X$ .
35. (previously presented) The compound of claim 31, wherein  $R^4$  is H.
36. (previously presented) The compound of claim 31, wherein  $R^6$  is  $-P(O)(OR^5)_2$ .
37. (previously presented) The compound of claim 31, wherein R is H;  $R^1$  and  $R^2$  taken together are  $P(O)OR^5$ ;  $R^3$  is  $-NH_3X$ ;  $R^4$  is H; and  $R^6$  is  $-P(O)(OR^5)_2$ .
38. (previously presented) A compound represented by formula I:



I

wherein,

n is 1;

R represents independently for each occurrence H, alkyl, aryl,  $-CH_2$ -aryl,  $-C(O)$ -alkyl,  $-C(O)$ -aryl, or  $-Si(alkyl)_3$ ;

$R^1$  is  $-CH_2$ -aryl,  $-C(O)$ -alkyl,  $-C(O)$ -aryl,  $-Si(alkyl)_3$ ;

$R^2$  is  $-CH_2$ -aryl,  $-C(O)$ -alkyl,  $-C(O)$ -aryl,  $-Si(alkyl)_3$ ; or  $R^1$  and  $R^2$  taken together are  $C(CH_3)_2$ ,  $P(O)OH$ , or  $P(O)OR^5$ ;

$R^3$  is amino,  $-N_3$ , or  $-NH_3X$ ;

$R^4$  represents independently for each occurrence alkyl, aryl,  $-CH_2$ -aryl,  $-C(O)$ -alkyl,  $-C(O)$ -aryl,  $-Si(alkyl)_3$ , or  $-P(O)(OR^5)_2$ ;

$R^5$  represents independently for each occurrence H,  $Li^+$ ,  $Na^+$ ,  $K^+$ ,  $Rb^+$ ,  $Cs^+$ , aryl, or an optionally substituted alkyl group; and

X is a halogen, alkyl carboxylate, or aryl carboxylate.